

**CURRENT REGULATED VOLTAGE LIMITED HIGH  
VOLTAGE POWER SUPPLY FOR CORONA CHARGER**

Abstract of the Disclosure

- 5           A method and apparatus for provision of a power supply that combines the advantages of current regulation with voltage limitation to enable corona chargers that can be run at higher current regulated set points for lower resistance sheets. The voltage limit will protect against arcing when high resistance media is used. This wider
- 10 operation window can be provided without the need to track sheet types in the process and shift the operating set points, which would result in much more complicated machine control algorithms. The regulation and limit reference controls retain the ability of changing the operating set points of the power supply, such that it can be
- 15 adapted to alternate physical configurations of the discharging system and the printing system.